

GENERAL NOTES:

1. BERTHA H.V. BAHAMA SHUTTER SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2020 (7th EDITION)** OF THE FLORIDA BUILDING CODE. THIS BAHAMA SHUTTER SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. (MIAMI DADE/ BROWARD COUNTY)
 DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$. USING **ASCE 7-16** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
 IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-16** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
 IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FOR CONNECTIONS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREWS SPACINGS.
 BERTHA H.V. BAHAMA SHUTTER'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS # 0510.01-06 , 0621.01-07 AND 1222.01-20 AS PER ASTM E 1886, ASTM E 1996 AND ASTM E-330 STANDARDS, QUALIFIED FOR WIND ZONE 3, MISSILE TYPE D & SMALL MISSILE, BASIC PROTECTION ONLY.
2. SEE MAXIMUM A.S.D. DESIGN PRESSURE RATINGS & MAXIMUM SHUTTER DIMENSIONS ON SCHEDULE ON SCHEDULE ON SHEET 7.
3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y = 25.0$ ksi MINIMUM (UNLESS OTHERWISE NOTED). ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.
4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
5. BOLTS TO BE AISI 304 SERIES STAINLESS STEEL WITH 35 ksi MINIMUM YIELD STRENGTH.
6. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
7. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

- (A) TO EXISTING WOOD UNITS: SOUTHERN PINE No.2, $G=0.55$.
- 1/4"Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC.
 - 1/4"Ø x 1 7/16" PANELMATE INSERTS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

- A.1) MINIMUM THREADED PENETRATION OF TAPCON ANCHORS INTO WOOD SHALL BE 1 1/2".
- A.2) MINIMUM THREADED PENETRATION OF PANELMATE INSERT INTO WOOD SHALL BE 1 5/8".
- A.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1 AND A.2).
- (B) TO EXISTING POURED MIN. $f'_c=3192$ psi. CONCRETE OR CONCRETE ASTM C-90 BLOCK UNITS:
- 1/4"Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC.
 - 1/4"Øx3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.
 - 1/4"Øx1 7/16" PANELMATE INSERTS AS MANUFACTURED BY ELCO FASTENING SYSTEMS, LLC.

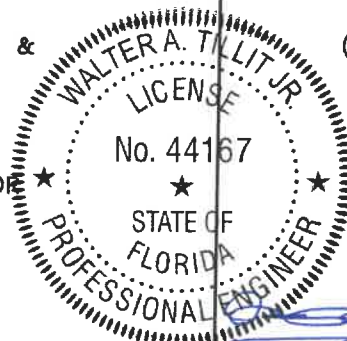
- B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4" ON CONCRETE HOLLOW BLOCK SHALL BE 1 1/4".
- B.2) MINIMUM EMBEDMENT OF 1/4"Øx3/4" ALL POINTS SOLID-SET ANCHORS INTO POURED CONCRETE SHALL BE 7/8" OR INTO CONCRETE HOLLOW BLOCK SHALL BE ENTIRELY EMBEDDED.
 NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.3) MINIMUM EMBEDMENT OF PANELMATE INSERTS INTO CONCRETE OR CONCRETE BLOCK SHALL BE 1 5/8" FOR CONCRETE AND 1 1/4" FOR BLOCK, RESPECTIVELY. 1/4"Ø-20 S.S. TRUSS HEAD MACHINE SCREW USED SHALL BE 1 1/4" LONG SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.4) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES B.1, B.2 AND B.3).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

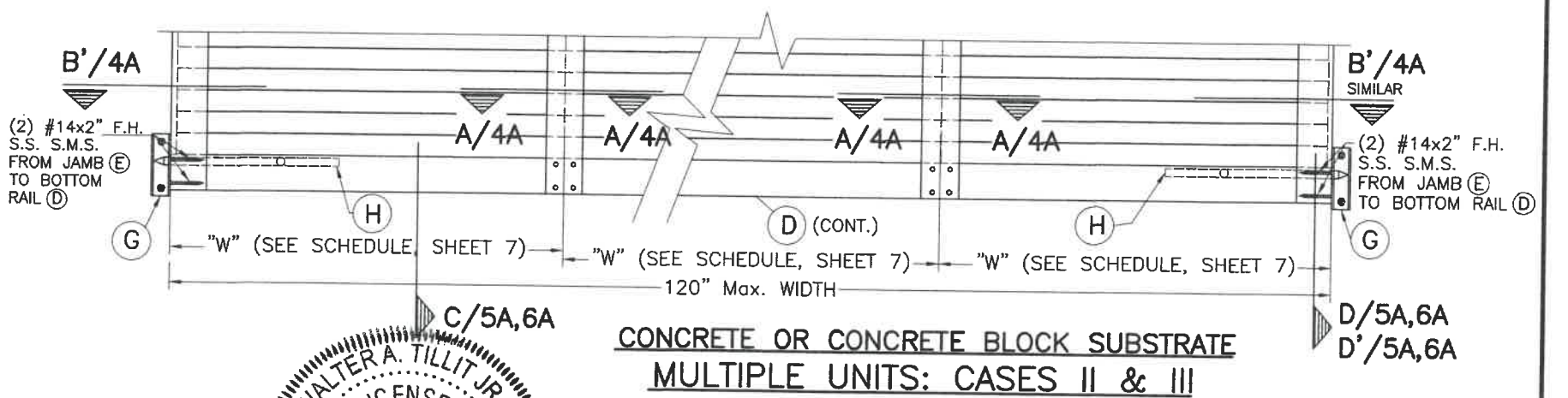
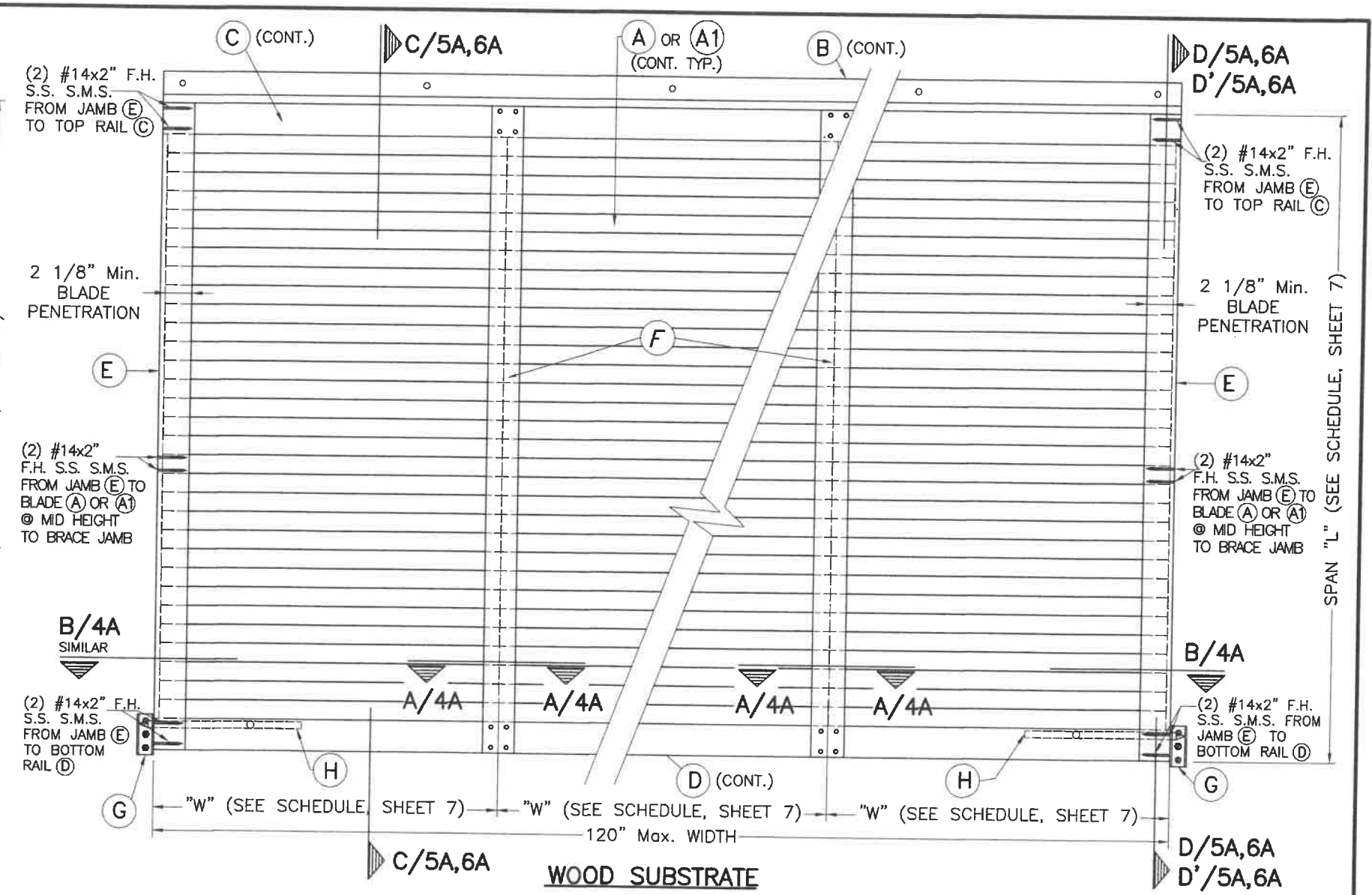
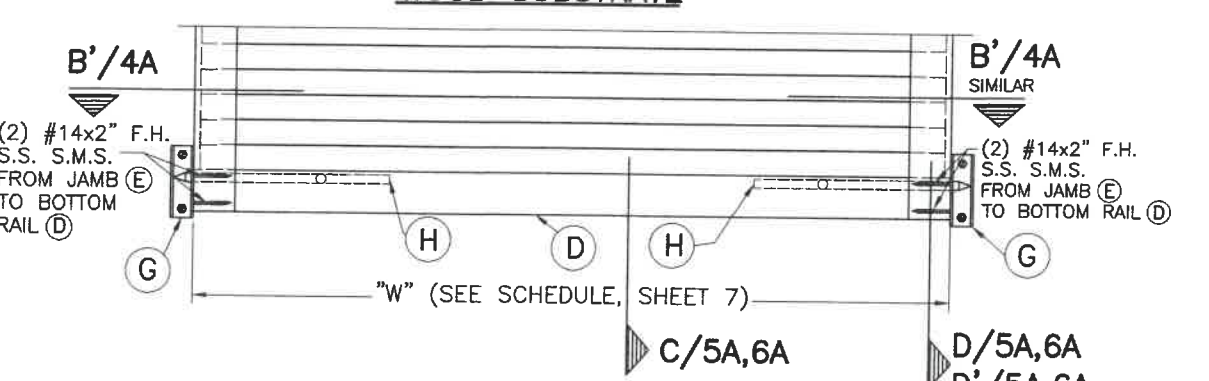
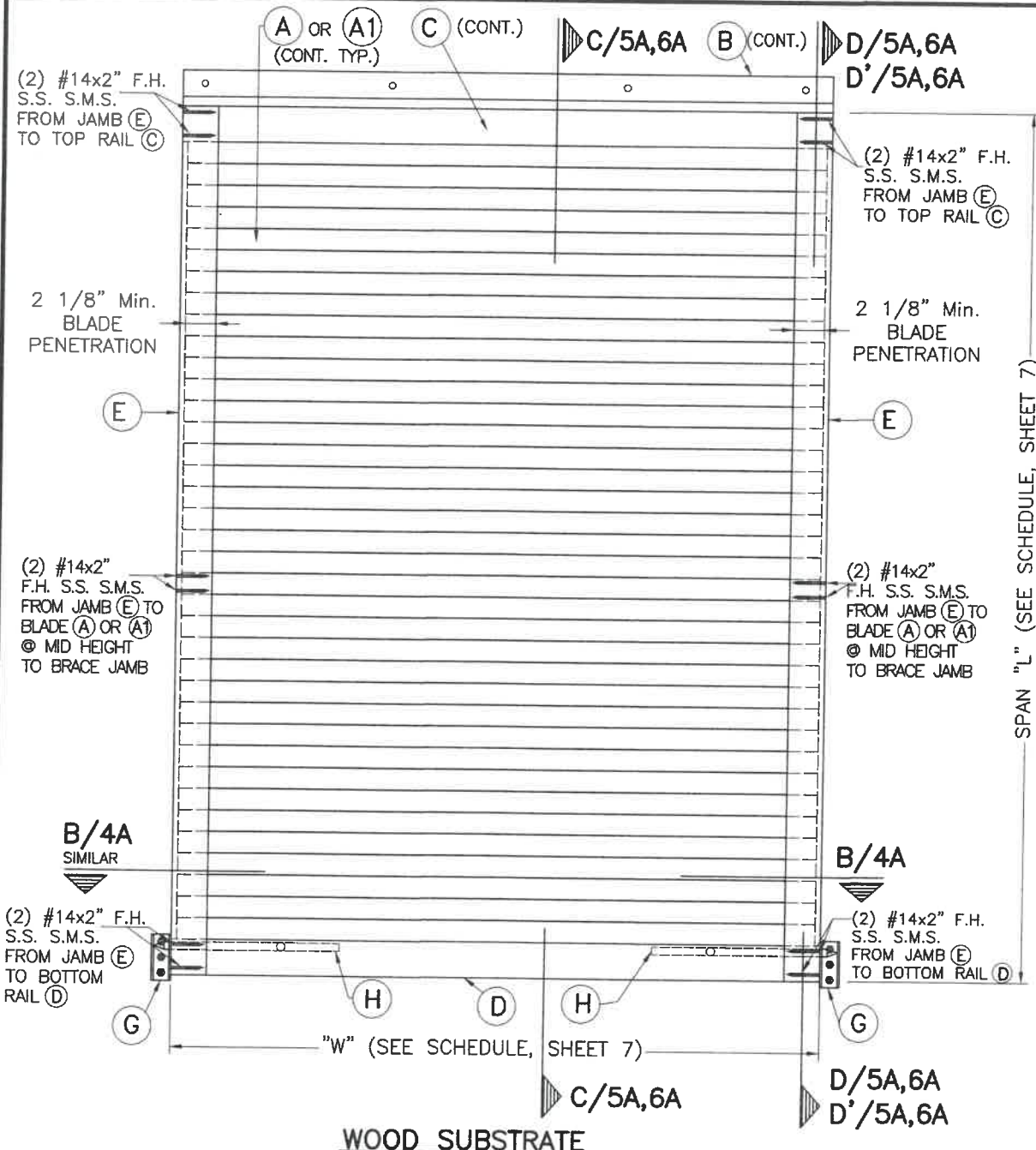
8. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH SILL BRACKETS DURING PERIODS OF HURRICANE WARNINGS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
10. BERTHA H.V. BAHAMA SHUTTER'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
11. SHUTTER'S MANUFACTURER LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT EXPOSED SURFACE OF THE BAHAMA FRAME (C), (D) OR (E) IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.
12. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i. e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS PRODUCT EVALUATION DOCUMENT, PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

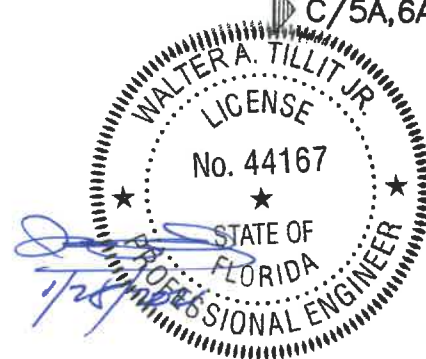
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

<p>© 2020 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305 VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 Fax : (305)871-1531 e-mail: tiltco@aol.com CA-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		ASSA / BERTHA H.V. BAHAMA SHUTTER (LARGE MISSILE & SMALL MISSILE) AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WESTROADS DRIVE WEST PALM BEACH, FLORIDA 33407 PH: (800)432-2204 FAX: (561)209-8380		M.P. DRAWN BY 7/2/2020 DATE 20-166 DRAWING No SHEET 1 OF 7	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-109	7/2/2020	3		
2	COMP. (C), (D)	1/22/2021	4		



CONCRETE OR CONCRETE BLOCK SUBSTRATE
 SINGLE UNITS: CASE I
 EXTERIOR ELEVATIONS FOR INSTALLATIONS
 WITH INTERIOR LOCKING ROD (H) FIXATION

N.T.S.



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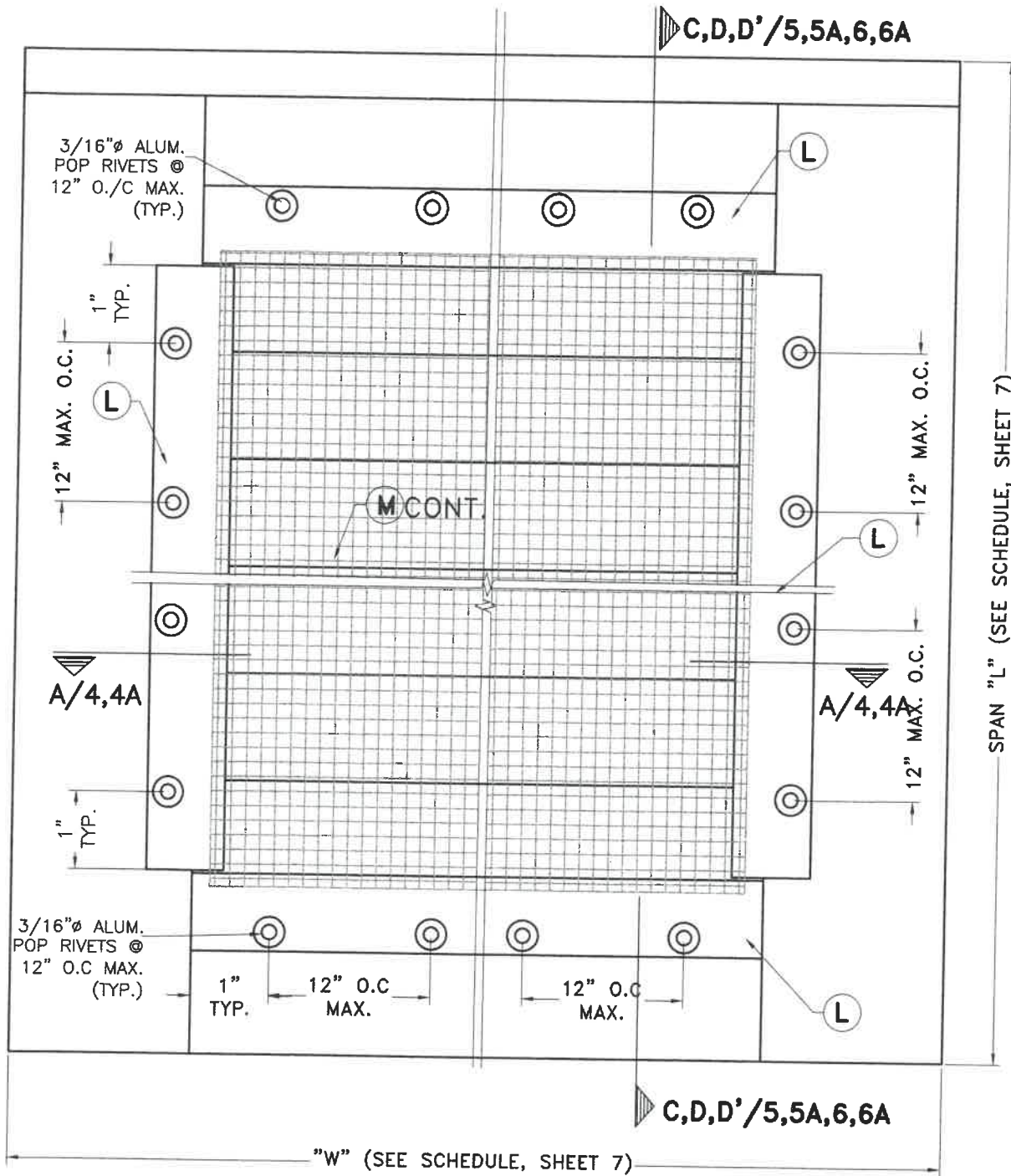
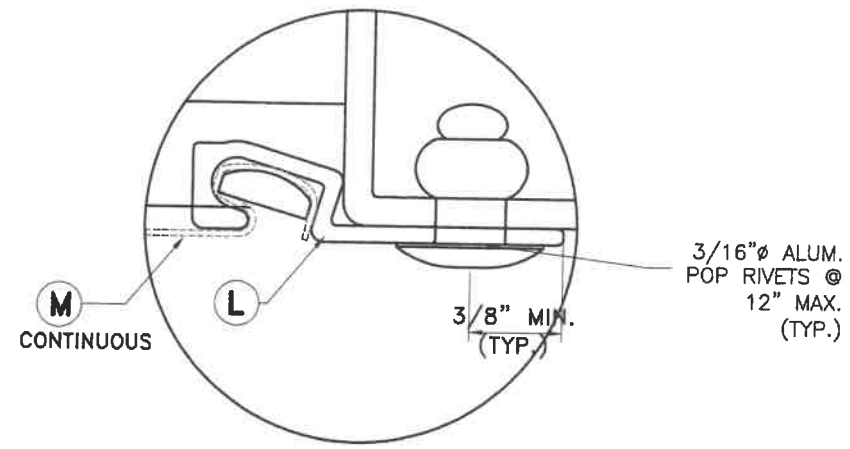
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AMERICAN SHUTTER SYSTEMS ASSOC., INC.

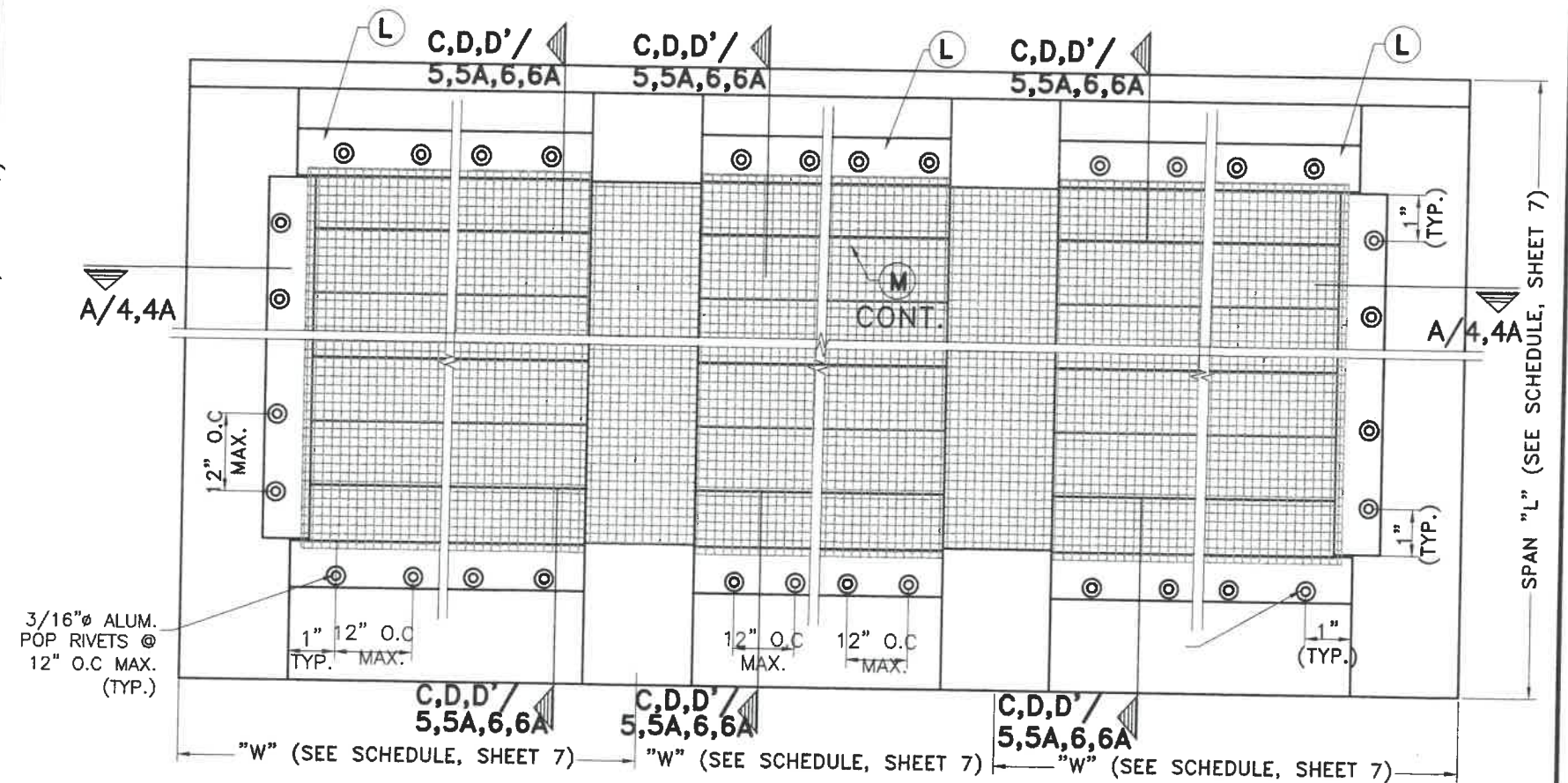
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 WEST PALM BEACH, FLORIDA 33407
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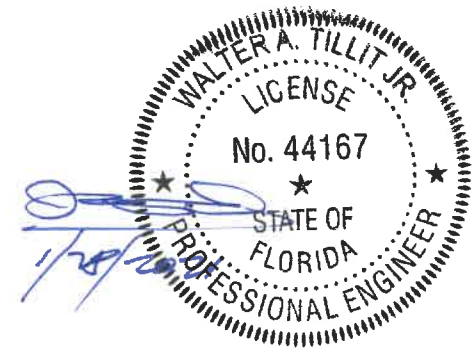
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 7/2/2020 DATE
 20-166 DRAWING No
 SHEET 3A OF 7



INTERIOR ELEVATION A FOR SINGLE UNITS
HV BAHAMA SCREEN ATTACHMENT
 N.T.S.



INTERIOR ELEVATION A FOR MULTIPLE UNITS
HV BAHAMA SCREEN ATTACHMENT
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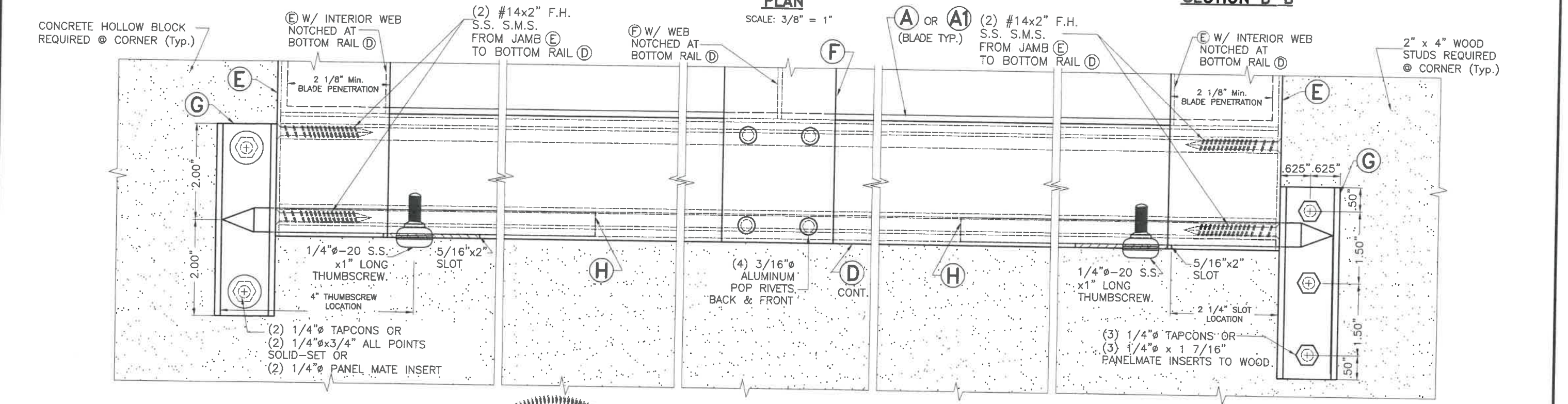
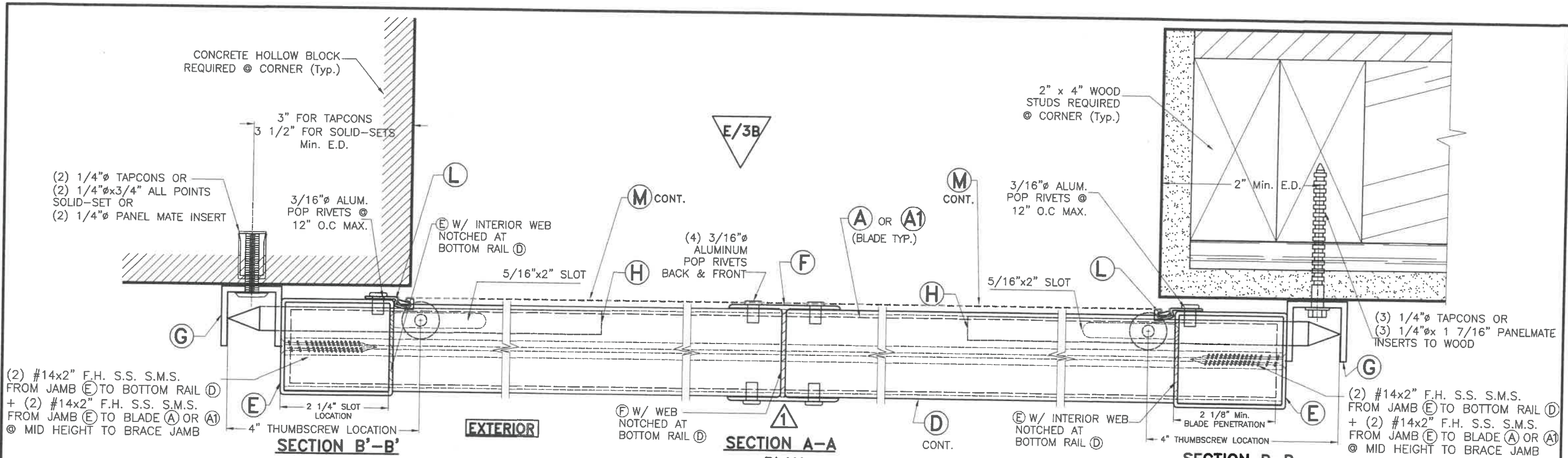
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7/2/2020
 DATE

20-166
 DRAWING No

SHEET 3B OF 7



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 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 1/22/2021

EXTERIOR ELEVATION 1
 SCALE: 3/8" = 1"

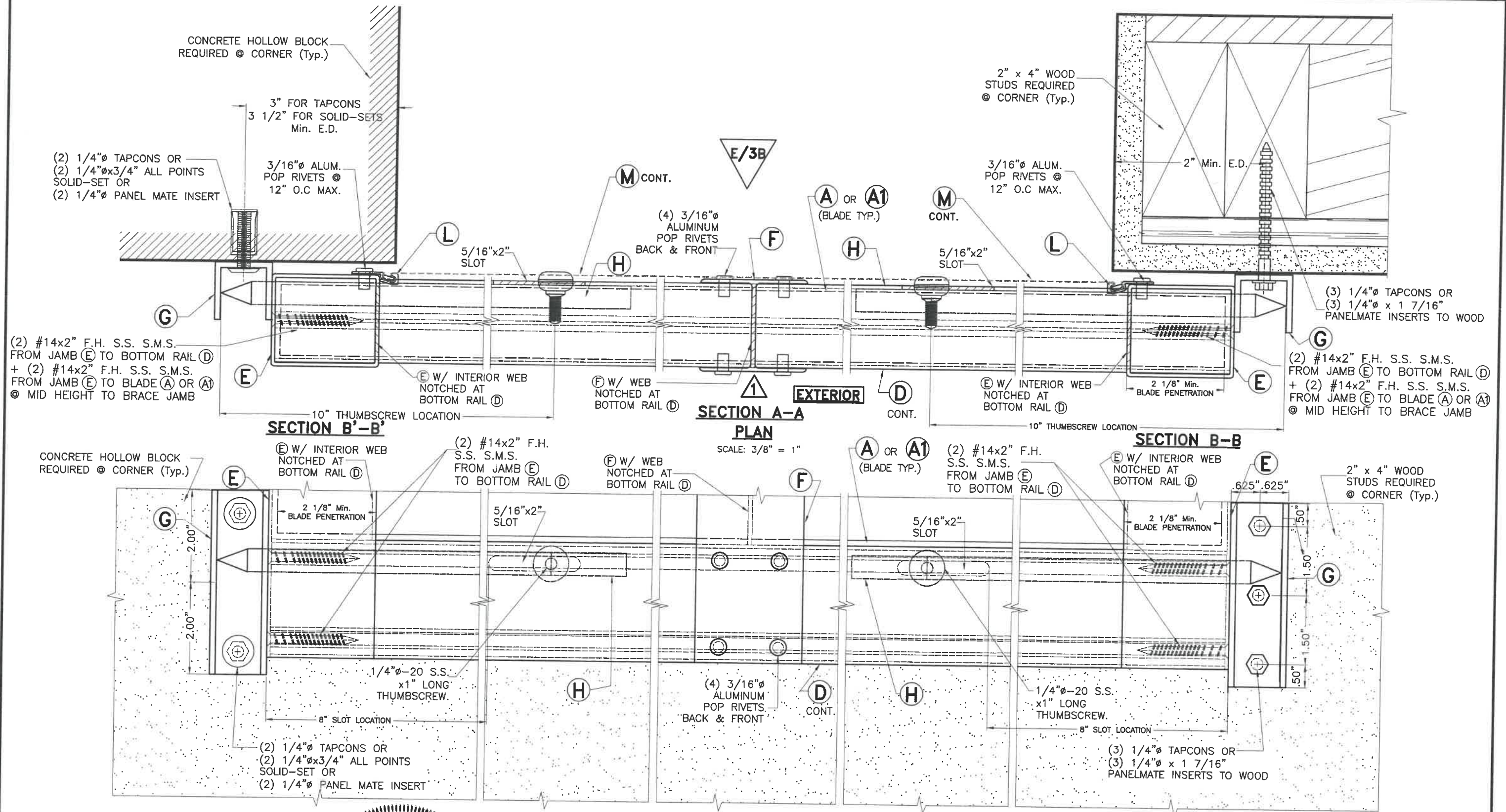
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20-166 DRAWING No	SHEET 4 OF 7

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-108	7/2/2020	3		
2	COMP. (L, M)	1/22/2021	4		



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 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

EXTERIOR ELEVATION 1
 SCALE: 3/8" = 1"

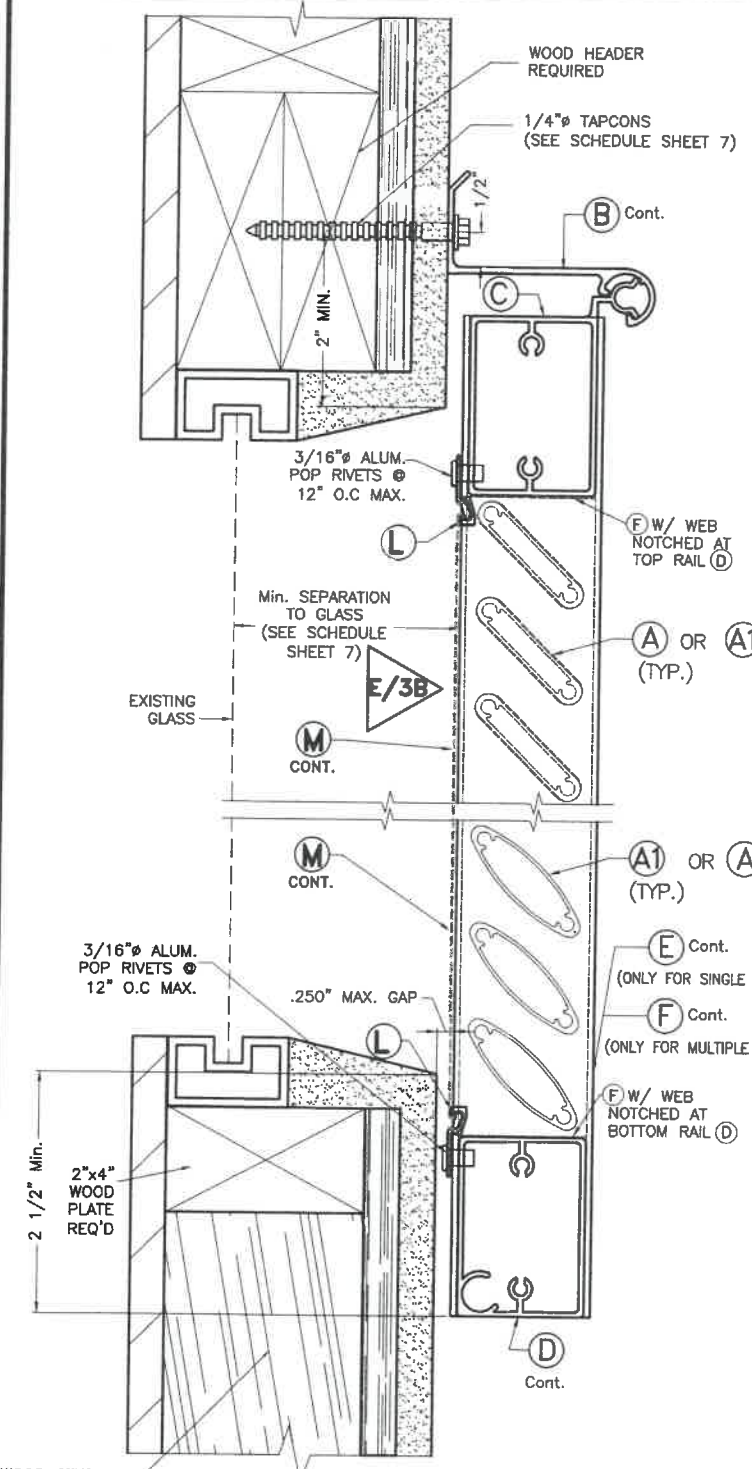
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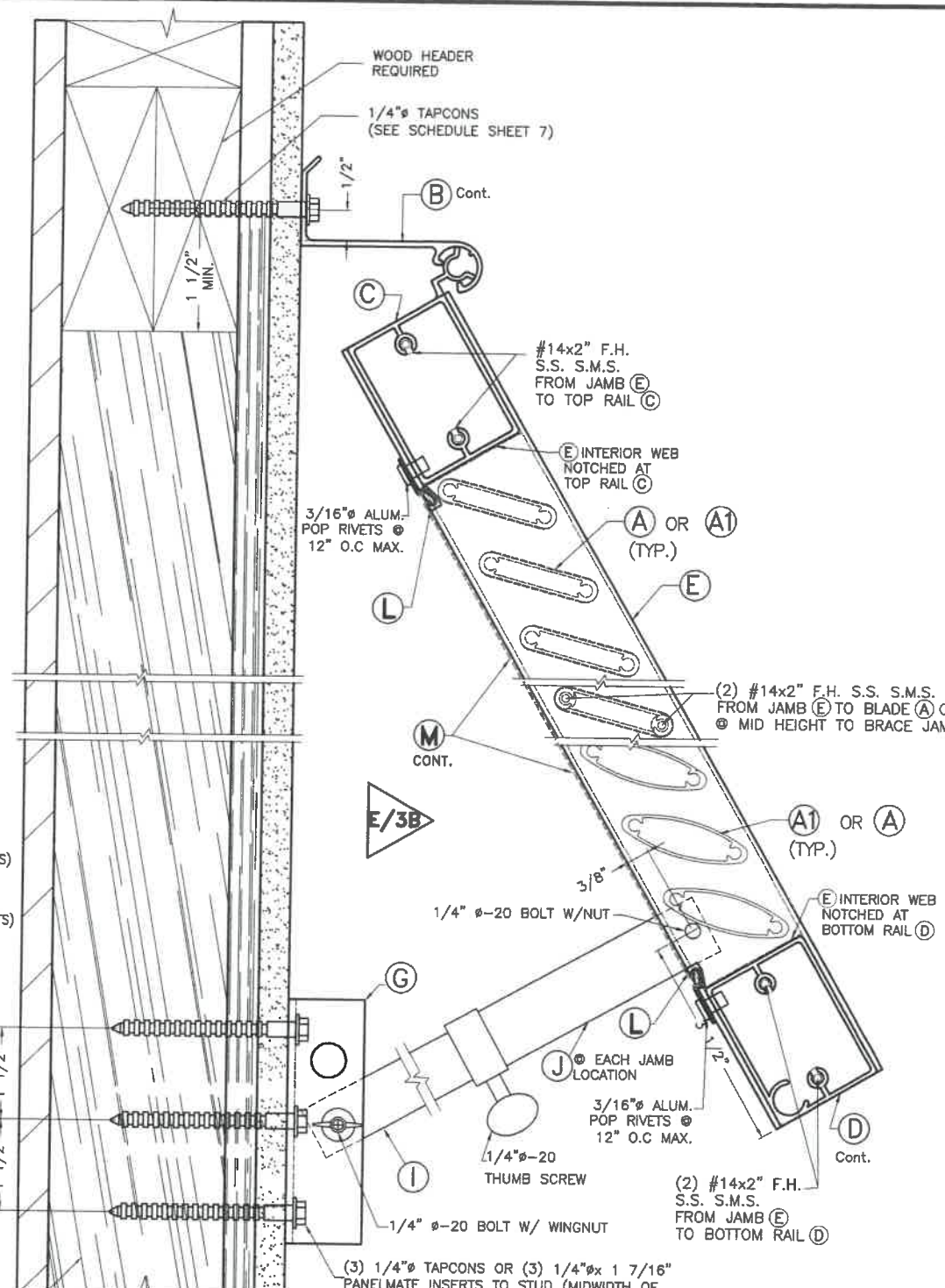
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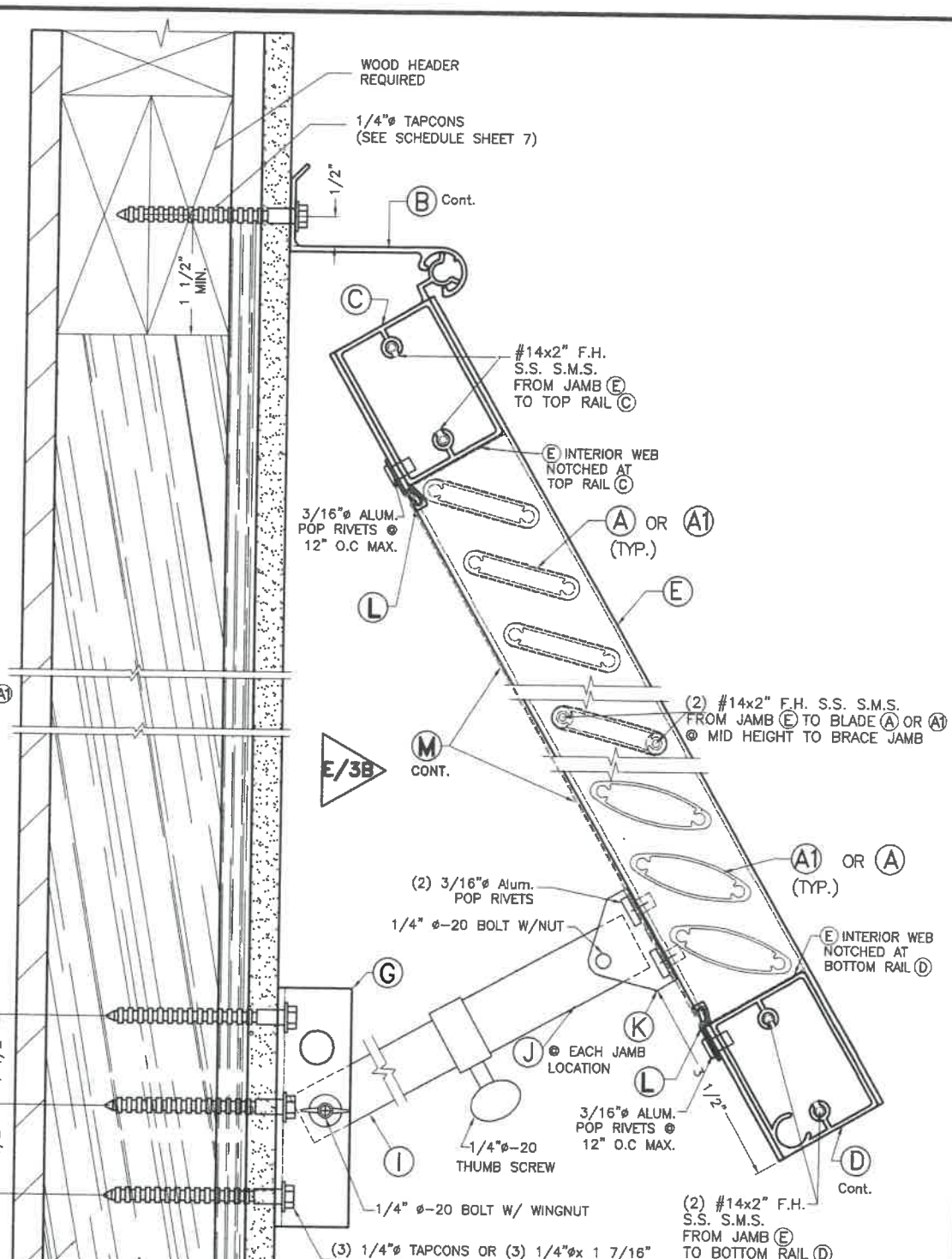
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 7/2/2020
 DATE
20-166
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 SHEET 4A OF 7



SECTION C - C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

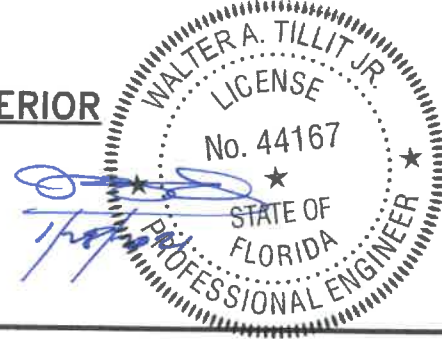


SECTION D - D
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NON HURRICANE POSITION
SCALE: 3/8" = 1"



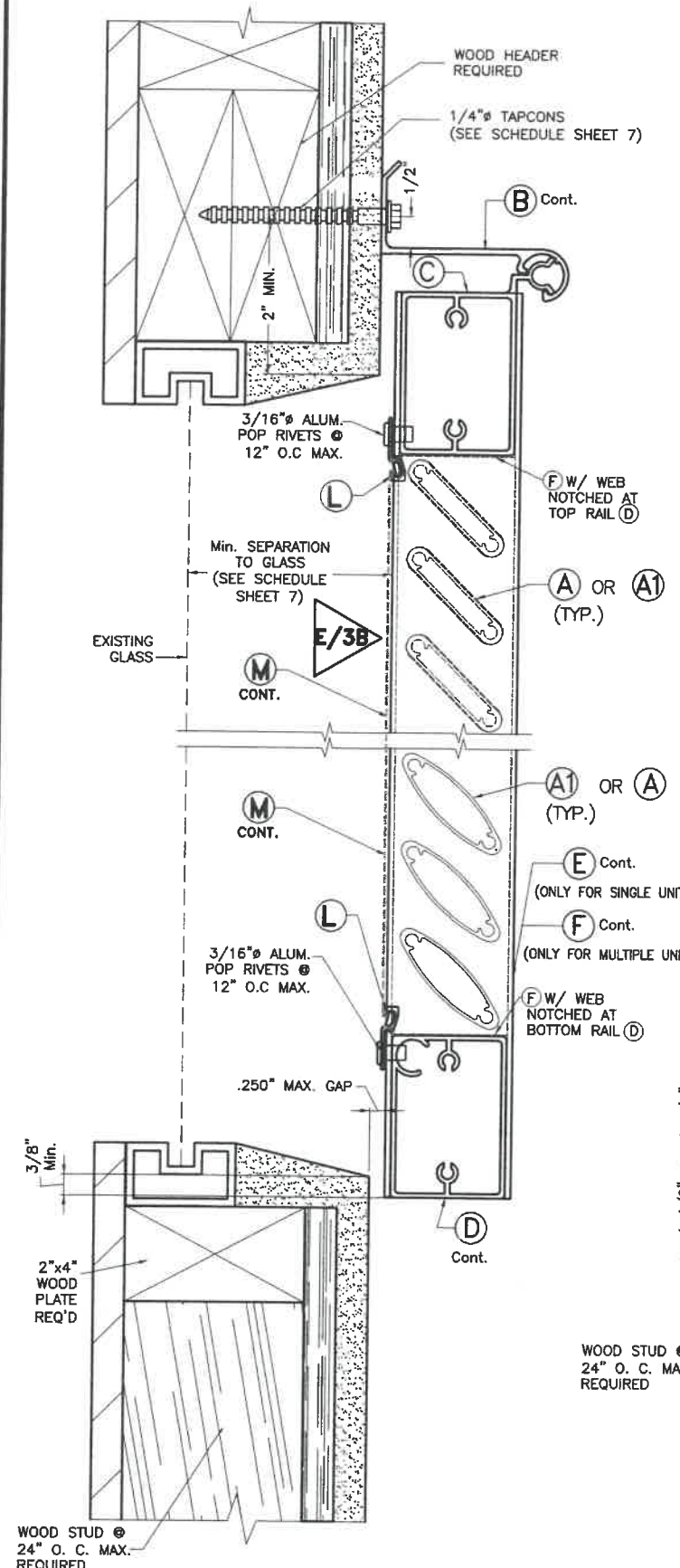
ALTERNATE SECTION D' - D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"

**CONNECTION TO WOOD W/ EXTERIOR
LOCKING ROD (H) FIXATION**

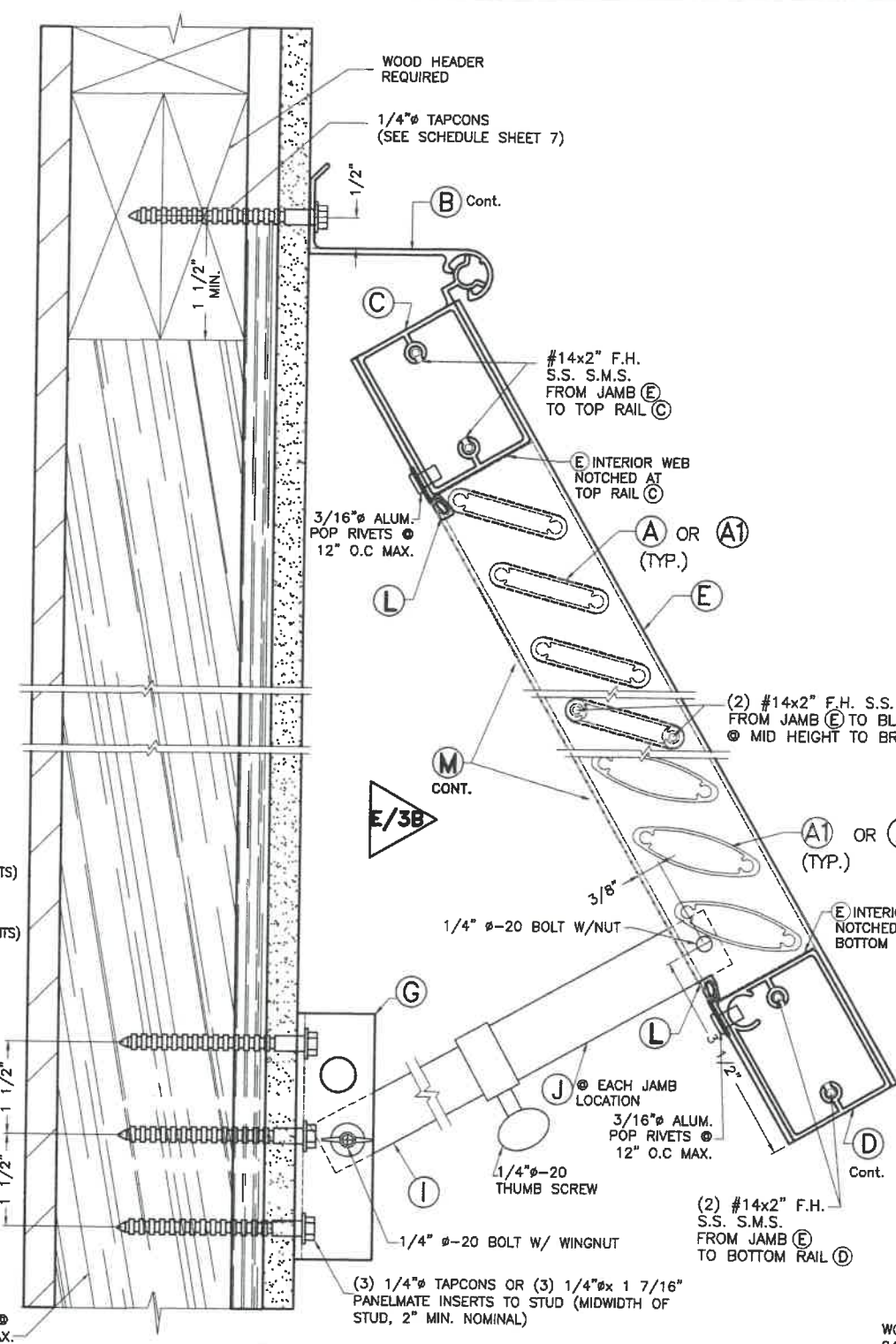


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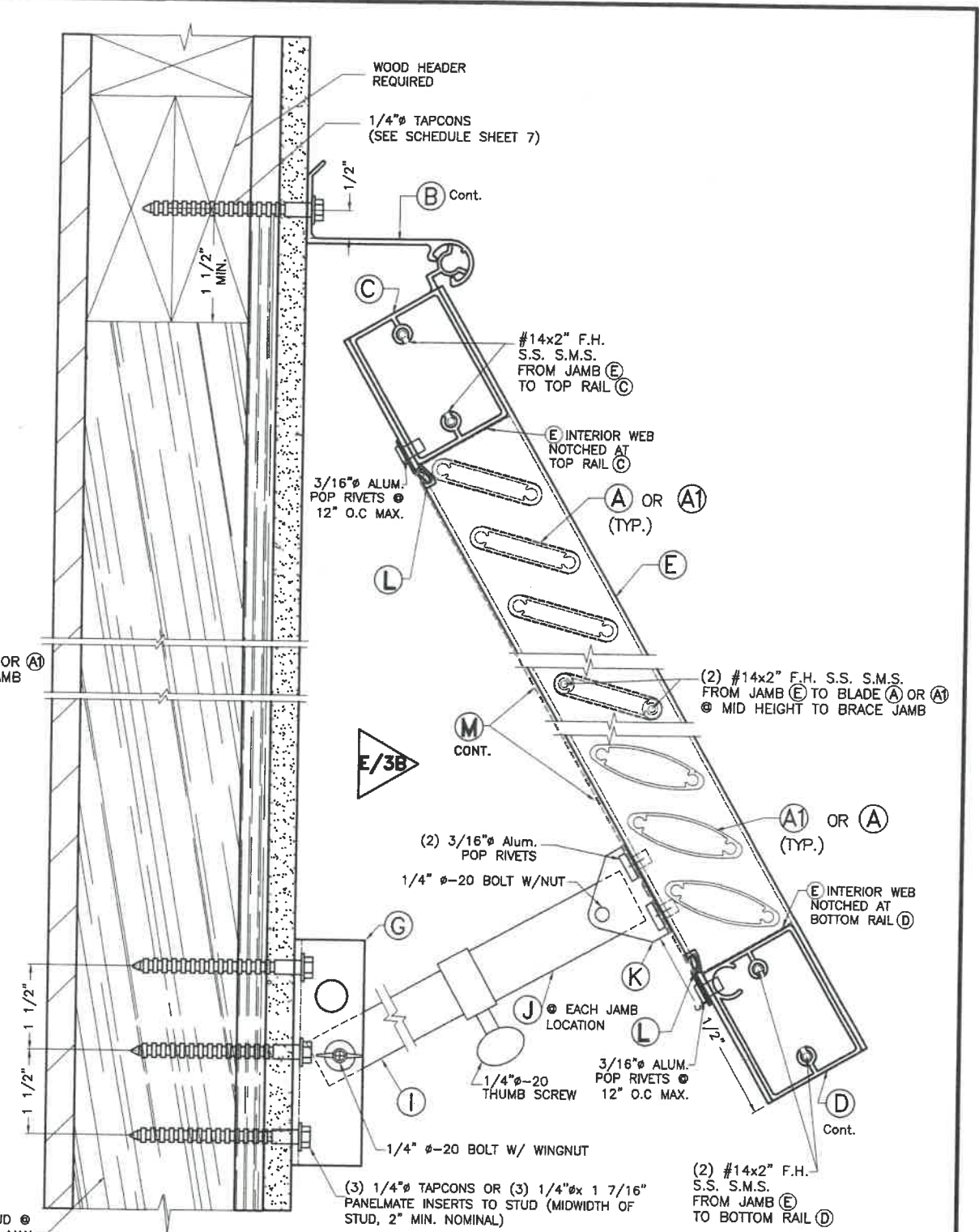
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-109	7/2/2020	3		
2	COMP. (U)	1/22/2021	4		



SECTION C - C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

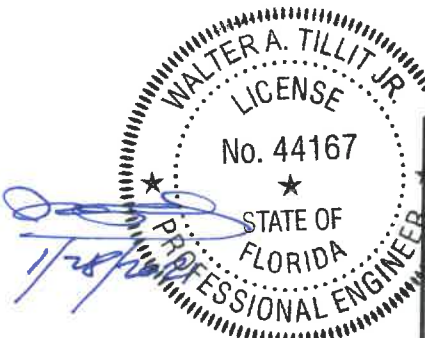


SECTION D - D
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"



ALTERNATE SECTION D'-D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"

**CONNECTION TO WOOD W/ ALTERNATE INTERIOR
LOCKING ROD (H) FIXATION**



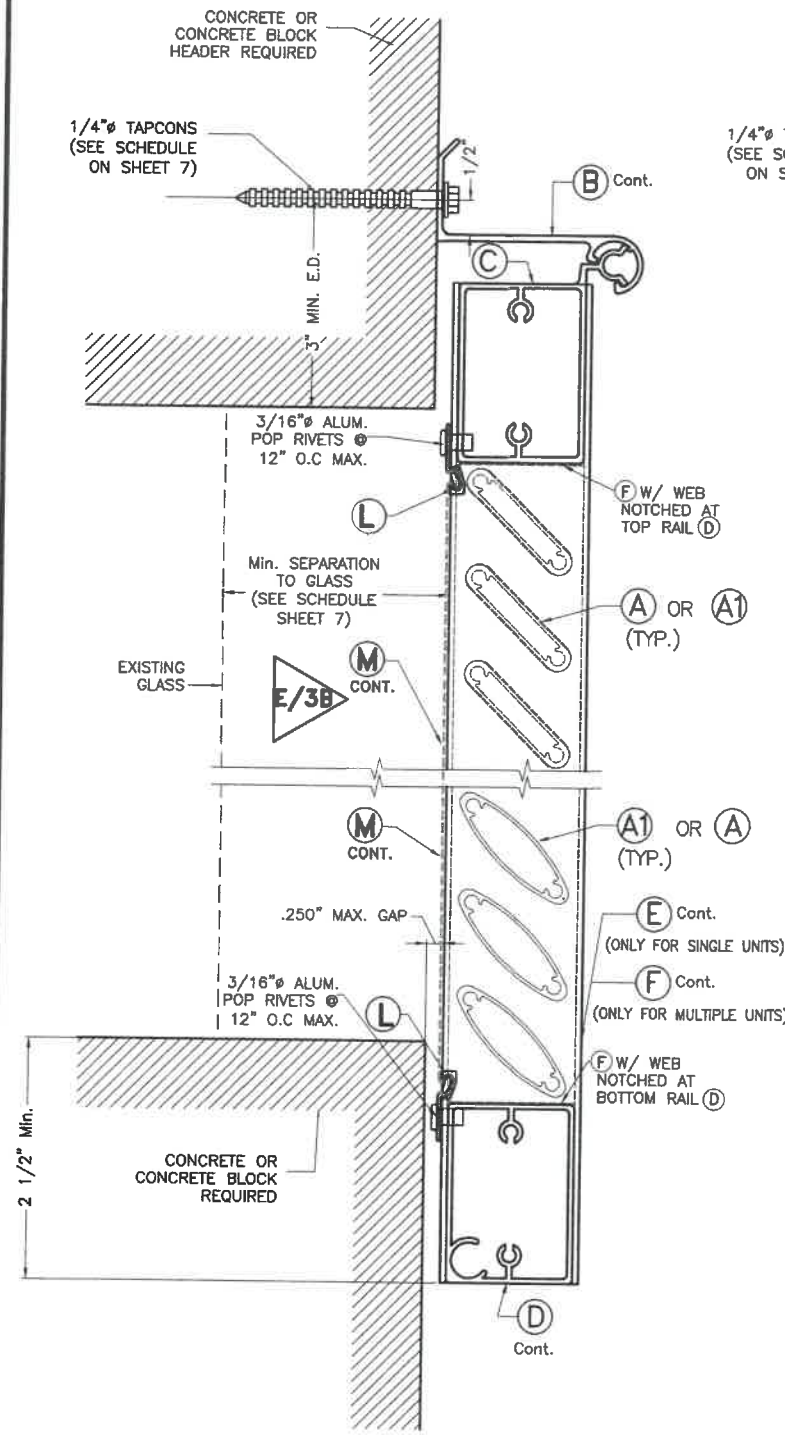
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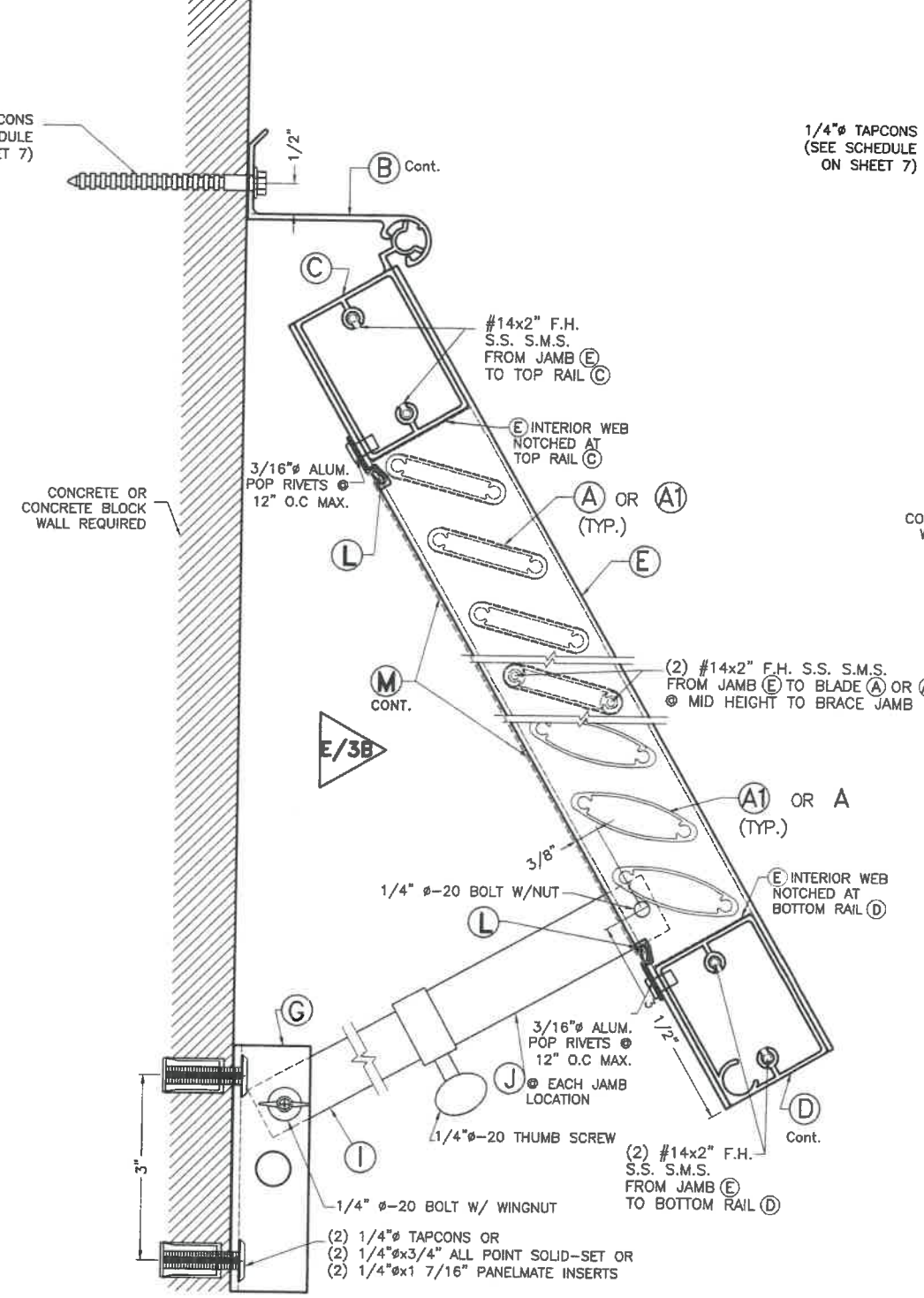
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20-166 DRAWING No	SHEET 5A OF 7

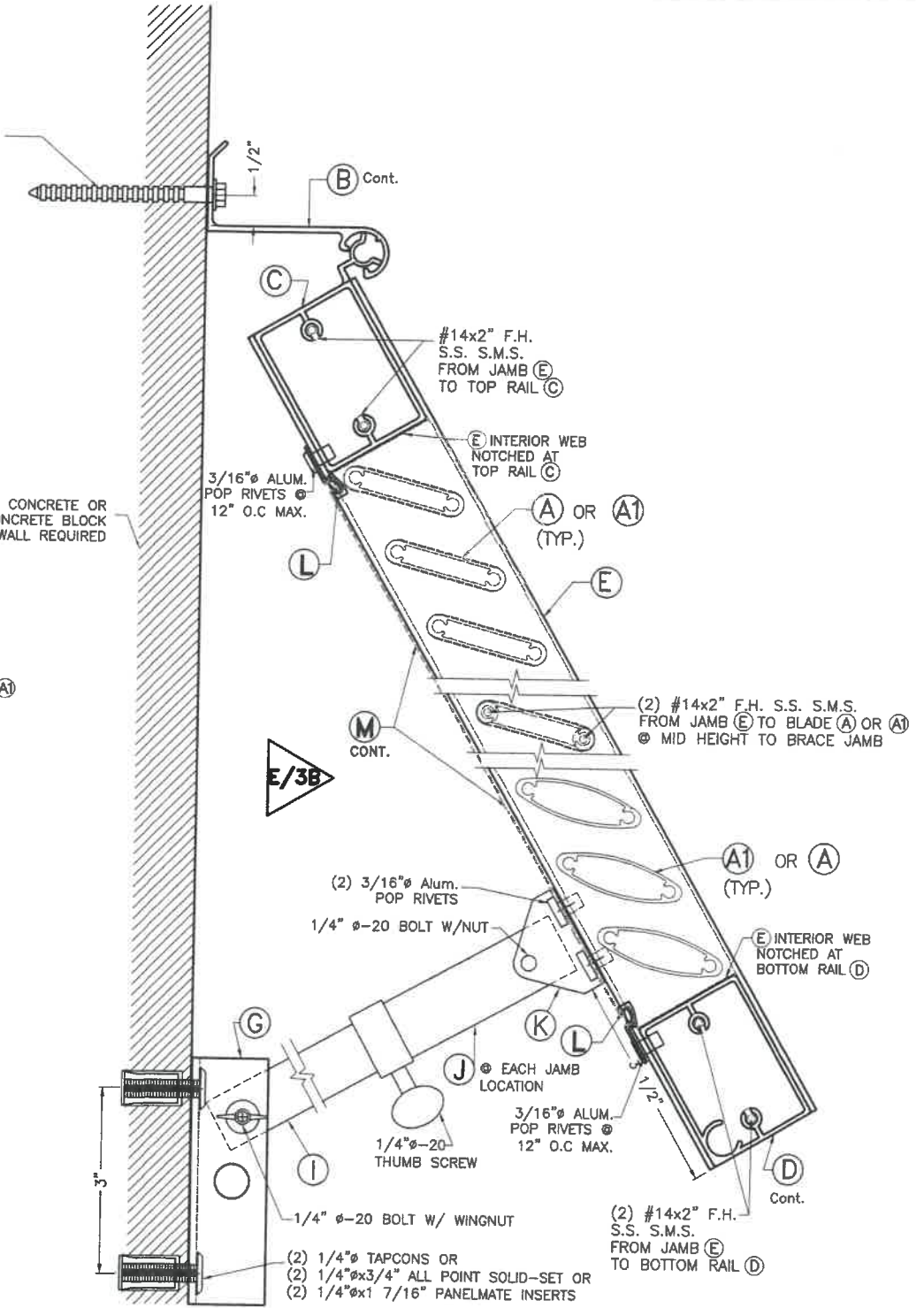
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2	COMP. (U, M)	1/22/2021	4		



SECTION C - C
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HURRICANE POSITION
SCALE: 3/8" = 1"

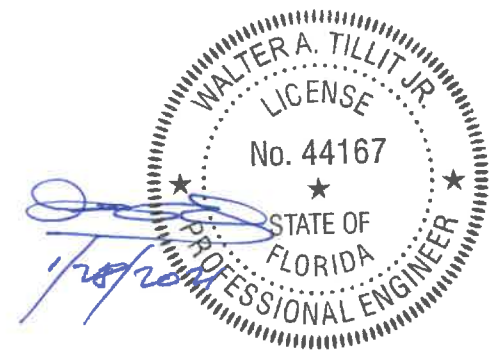


SECTION D - D
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"



ALTERNATE SECTION D'-D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

**CONNECTION TO CONCRETE OR CONCRETE BLOCK
W/ EXTERIOR LOCKING ROD (H) FIXATION**

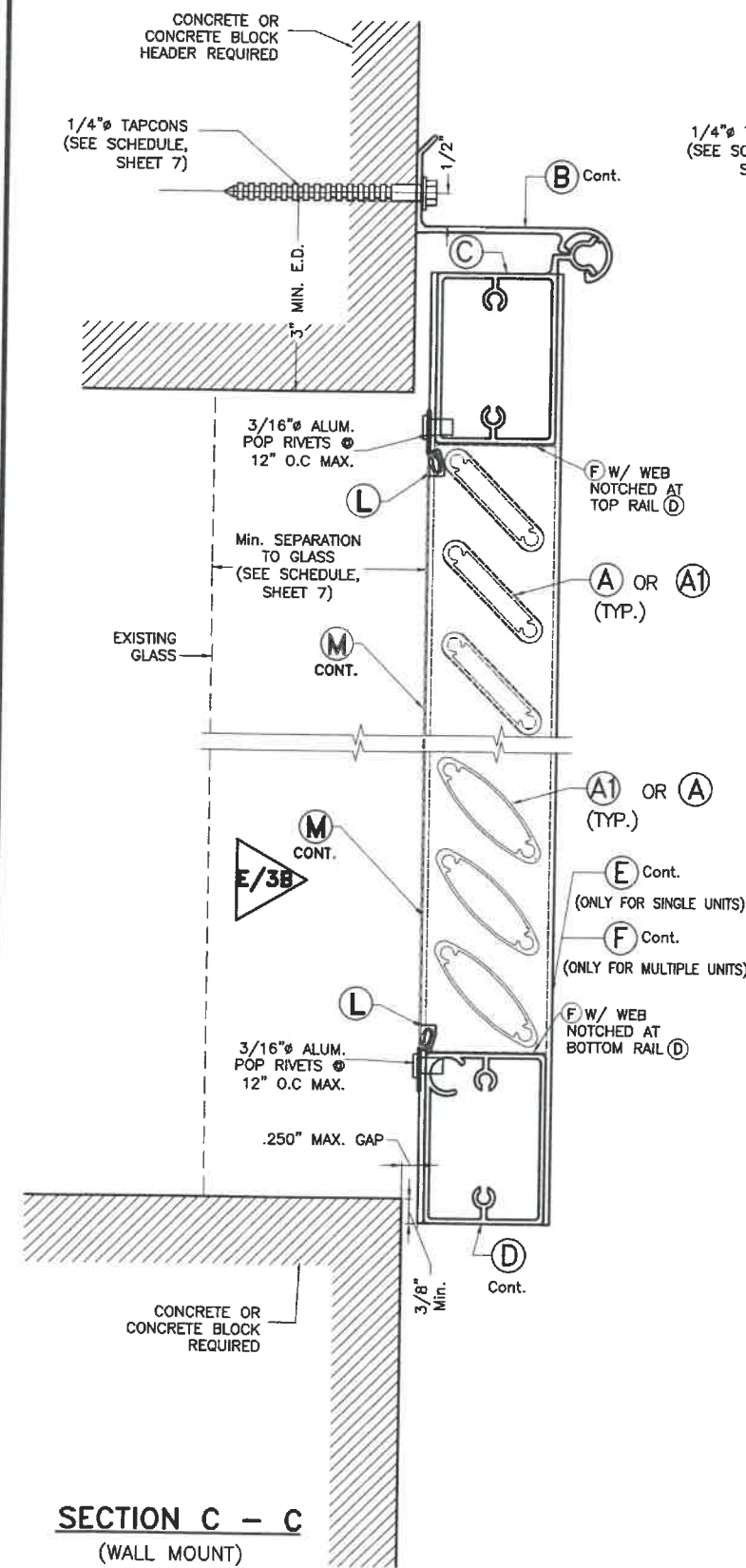


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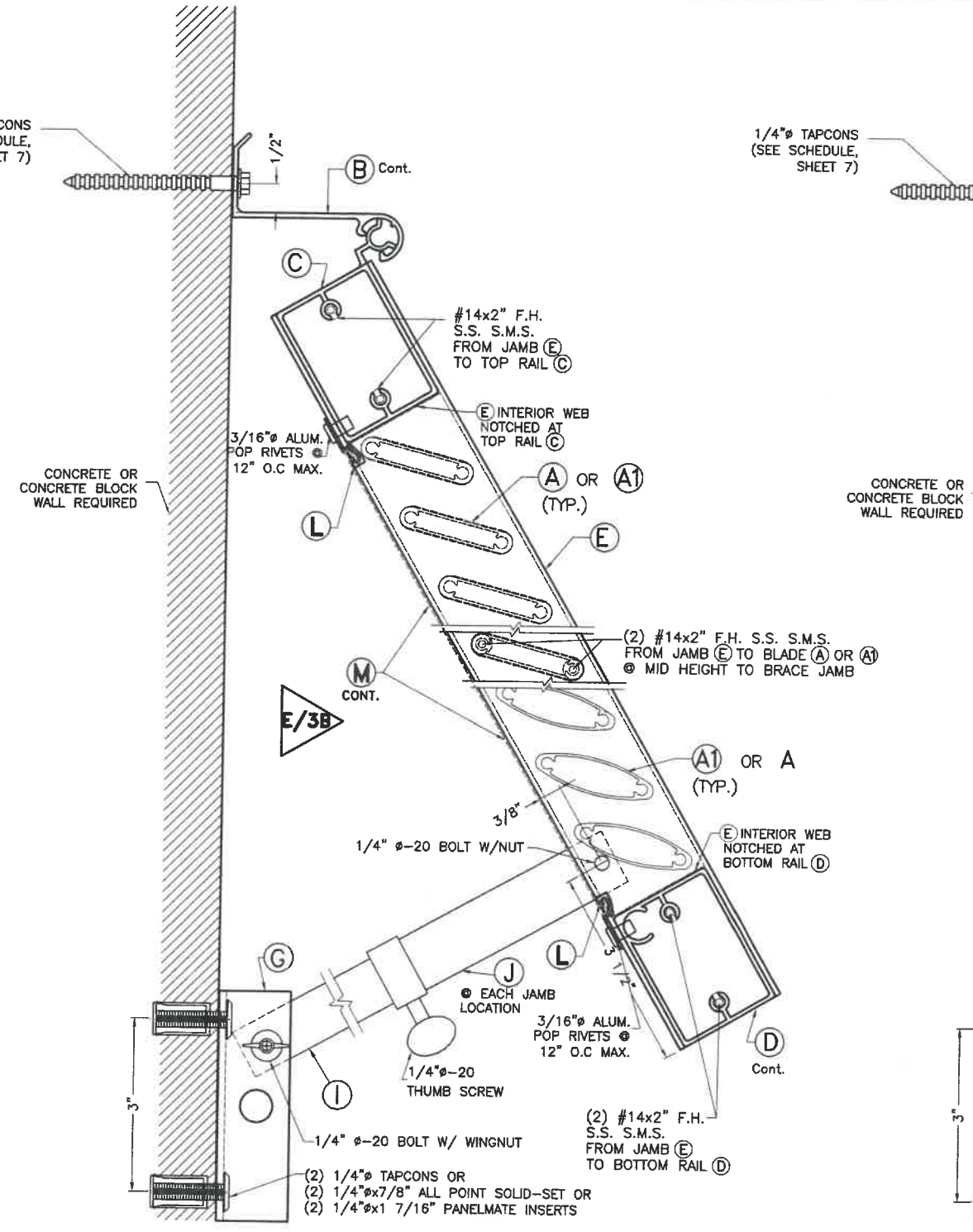
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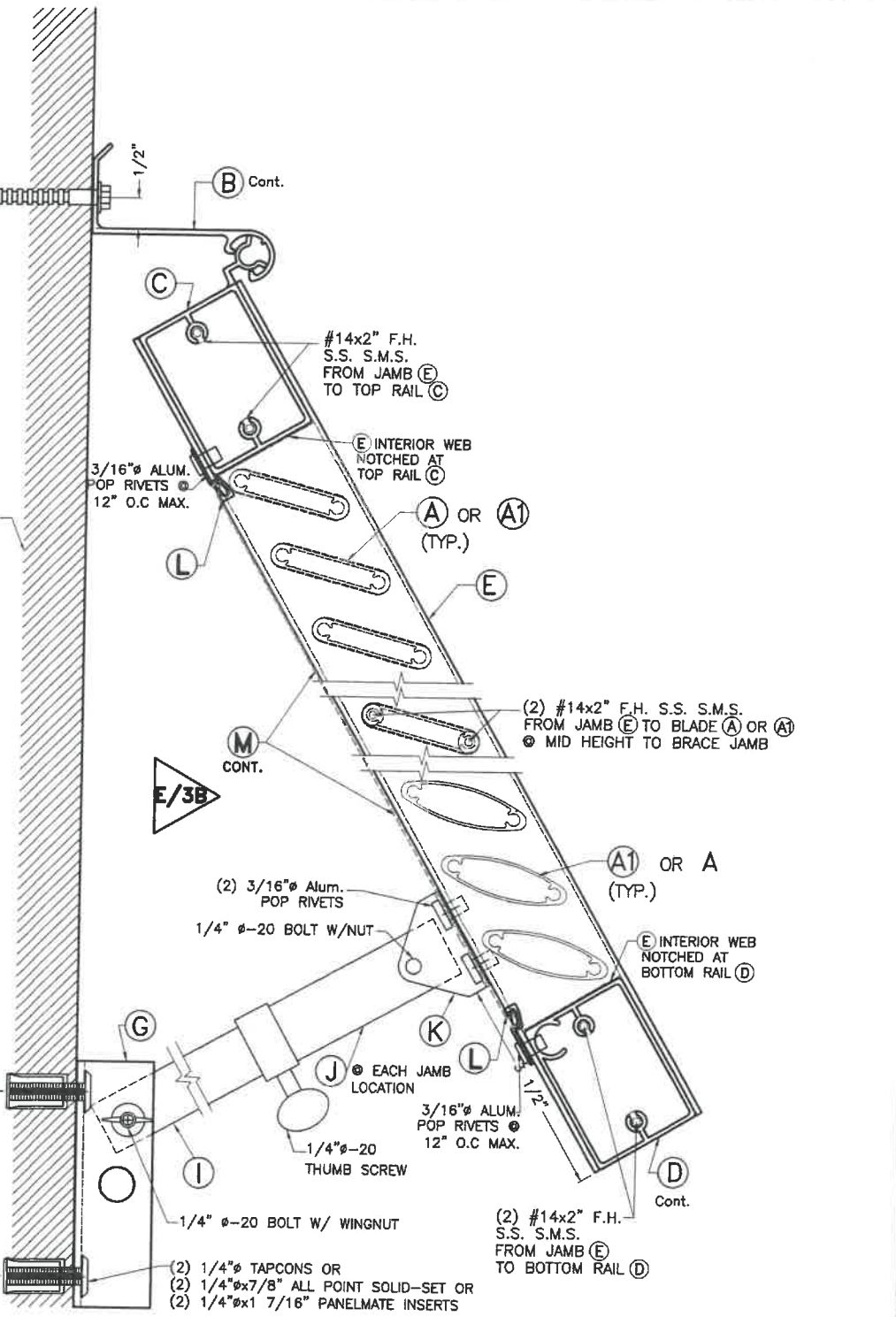
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DRAWN BY
7/2/2020
DATE
20-166
DRAWING No
SHEET 6 OF 7



SECTION C - C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

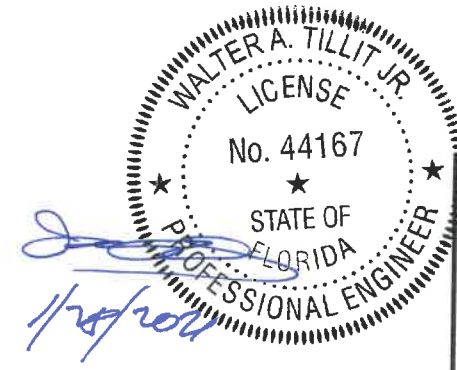


SECTION D - D
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"



ALTERNATE SECTION D'-D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"

**CONNECTION TO CONCRETE OR CONCRETE BLOCK
W/ INTERIOR LOCKING ROD (H) FIXATION**



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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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CA-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

**ASSA / BERTHA H.V. BAHAMA SHUTTER
(LARGE MISSILE & SMALL MISSILE)**
AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WESTROADS DRIVE
WEST PALM BEACH, FLORIDA 33407
PH: (800)432-2204 FAX: (561)209-8380

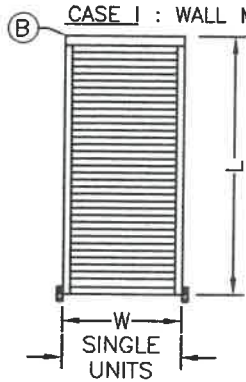
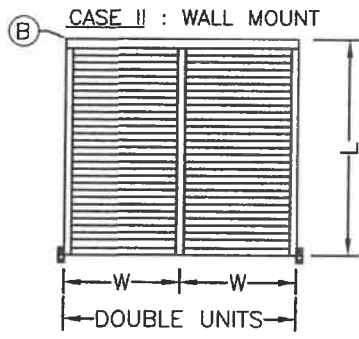
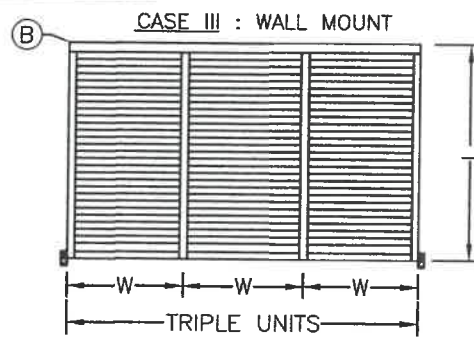
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-109	7/2/2020	3		
2	COMP. (1), (2)	1/22/2021	4		

M.P.
DRAWN BY
7/2/2020
DATE
20-166
DRAWING No
SHEET 6A OF 7

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

SCHEDULE # 1

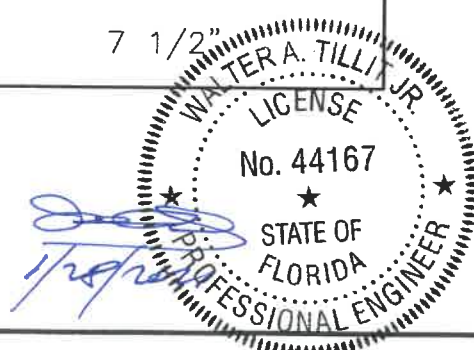
MAXIMUM SHUTTER SPAN "L" (in), MAXIMUM SHUTTER WIDTH "W" (in) FOR SINGLE (CASE I) & MULTIPLE (CASES II & III) UNITS FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING FOR INSTALLATIONS INTO POURED CONCRETE, CONCRETE BLOCK OR WOOD SUBSTRATES

CASE	SINGLE UNITS ELEVATION		MULTIPLE UNITS ELEVATIONS		
	CASE I : WALL MOUNT	CASE II : WALL MOUNT	CASE III : WALL MOUNT	DOUBLE UNITS	TRIPLE UNITS
BAHAMA SHUTTER ELEVATIONS					
	MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)	INTERIOR MULLION TYPE REQUIRED	MINIMUM SEPARATION TO GLASS (IN)
I	+45.0 , -55.0	42"	96"	N/A	4 5/8"
II & III	+45.0 , -50.0	40"	70"	(F)	3 5/8"


SCHEDULE # 2

MAXIMUM ANCHOR SPACING AT TOP FEMALE HINGES (B) FOR SINGLE (CASE I) & MULTIPLE (CASES II & III) UNITS FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING & SUBSTRATE TYPE

CASE	MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	SUBSTRATE	
		WOOD SOUTHERN PINE No.2	POURED CONCRETE OR CONCRETE BLOCK
I	+45.0 , -55.0	12"	7 1/2"
II & III	+45.0 , -50.0	7 1/2"	7 1/2"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305 VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		ASSA / BERTHA H.V. BAHAMA SHUTTER (LARGE MISSILE & SMALL MISSILE) AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WESTROADS DRIVE WEST PALM BEACH, FLORIDA 33407 PH: (800)432-2204 FAX: (561)209-8380	M.P DRAWN BY 7/2/2020 DATE 20-166 DRAWING No SHEET 7 OF 7		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-109	7/2/2020	3		
2	COMP. (Q, R)	1/22/2021	4		